Research Article

Survey on the Small Mammals in Sg. Kangkawat Research Station Imbak Canyon Conservation Areas

Lawrence Alan Bansa1*, Qhairil Shyamri Rosli1, Ummu Safiyyah Daud2, Amirrah Amat2, Muhd Amsyari Morni3, Julius William Dee3, Emy Ritta Jinggong3, Praveena Rajasegaran3, Juliana Senawi4, Jayaraj Vijaya Kumaran5,6, Isham Azhar1, Azniza Mahyudin2, Noor Haliza Hasan2, Faisal Ali Anwarali Khan3

1Faculty of Natural Science and Sustainability, University College Sabah Foundation, Jalan Sanzec, Sembulan, 88100 Kota Kinabalu, Sabah, Malaysia
2Institute for Tropical Biology and Conservation, Universiti Malaysia Sabah, Jalan UMS, 88400 Kota Kinabalu, Sabah, Malaysia
3Department of Zoology, Faculty of Resource Science and Technology, Universiti Malaysia Sarawak, 94300 Kota Samarahan, Sarawak, Malaysia
4Institute for Environment & Development (LESTARI), Universiti Kebangsaan Malaysia (UKM), 43600 UKM Bangi, Selangor, Malaysia
5Global Entrepreneurship Research and Innovation Centre (GERIC), Locked Bag 36, Pengkalan Chepa, 16100 Kota Bharu, Kelantan
6Faculty of Earth Science, Universiti Malaysia Kelantan Kampus Jeli, Locked Bag 100, 17600 Jeli, Kelantan, Malaysia

*Corresponding author: lawrencealanbansa@ucsf.edu.my

Abstract

Sg. Kangkawat Research Station is a newly established research station in the Imbak Canyon Conservation Area, Sabah which encompasses both primary and secondary forest areas. Limited data is available on the small mammal diversity for this particular area. Therefore, a survey-based study on small mammal diversity was carried out between the 29th September - 8th October 2018 along the established trails within the vicinity areas of this research station. Small mammal trapping was done using traps (mist nets, harp traps, cage traps and pitfall traps) employed randomly along the Nepenthes trail, the Kawang trail, the South Rim trail and the Pelajau trail. This study documented a total of 32 small mammal species i.e. represented by 26 species (15 spp. of new records for ICCA) of volant small mammals (Chiroptera) and 6 species of non-volant small mammals (Rodentia, Scadentia, Insectivora, Carnivora). The total number of specimens recorded was 108. A new distribution record on the Free-tailed Bat, Chaerephon cf. johorensis, was documented for Sabah and Borneo during this study.

Keywords: Small mammals; Chiroptera; Rodentia; Scandentia; Insectivora; Imbak Canyon Conservation Area; Sabah